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(54) Title: ANHYDROUS TOPICAL FORMULATION FOR POLYPHENOLS

(57) Abstract: The present invention discloses a composition of matter, and method to formulate same, which is an anhydrous topical cream, gel or ointment base, a polyphenol and a suitable adsorbent binding carrier to which the polyphenol will bind for purposes of even disbursement within the cream, gel or base and which will not inhibit the ability of the polyphenols to be released on and into the aqueous environment of the skin when the topical mixture is applied thereto. The binding carrier provides the ability to disperse a hydrophilic polyphenol in a non-aqueous medium for purposes of topical application to the body. In particular, the present invention discloses the use of polyphenols such as tea catechins, and in particular green tea catechins, disbursed in an anhydrous base consisting of either saturated or unsaturated plant oils or waxes through the use of a variety of binding carriers including, but is not limited to, talcs and clays, alginates, algac, agars, gums, gelatins, celluloses, silica, silica gels, simethicone, salicylates, silicates and silicone resins, tragacanth, calcium carbonates and magnesium or zinc oxides. Such binding carriers are particularly useful when polyphenol concentrations exceed 0.2% w/w in the mixture, and their use is preferred when concentrations are between 1.0 to 20% w/w polyphenols.



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